

REMARKS

Applicants traverse the rejection of claim 1 (the only pending claim) as being anticipated by Kojima et al. (US Patent 7,142,824) because the reference fails to disclose the requirement of the claim for the second circulator of the second emitter.

Kojima et al. discloses, in the two paragraphs [column 2, lines 13-57] cited in the Office Action and in reference with Fig. 1 (or 2, 3, 4), an antenna device including:

a first antenna 1 matching with first, second and third frequency bands;

a second antenna 2 matching with the third frequency band;

a diplexer 3 for distributing signals received from the first antenna 1 into signals of the first frequency band and signals of the second and third frequency bands;

a first switch unit 4 for selecting a first transmitter 8 for transmitting signals of the first frequency band or a first receiver 7 for receiving signals of the first frequency band and connecting the transmitter 8 or receiver 7 to diplexer 3;

a second switch unit 5 for selecting a second receiver 9 for receiving signals of the second frequency band or a second transmitter 10 for transmitting signals of the second frequency band and connecting the second transmitter 10 or the second receiver 8 to diplexer 3; and

a third switch unit 6 for selecting the second antenna 2 or diplexer 3 and connecting antenna 2 or diplexer 3 to a transmitter/receiver 11 for transmitting and receiving signals of the third frequency band.

As shown in Fig. 3 or 4, the antenna device also includes a lowpass filter 13 to suppress the respective higher harmonics in the signals of the first frequency band (column 8, lines 30-31, and column 9, lines 22-28).

In comparison with claim 1, it appears that the Kojima antenna device uses two antennas 1 and 2 for handling at least two different frequency bands using a transmitter (emitter) and a receiver for each frequency band (Office Action, page 3, lines 1-3). Therefore, transmitter/receiver 11, connected to second antenna 2 via third switch unit 6, includes a second receiver for receiving a third data signal in a second useful frequency band and a second emitter for emitting a fourth data signal in the second useful frequency

band, as recited in claim 1.

The Kojima antenna device thus includes:

a first emitter 8 adapted to emit a first data signal in a first useful frequency band and a first receiver 7 adapted to receive a second data signal in said first useful frequency band,

a second receiver 11 adapted to receive a third data signal in a second useful frequency band (via (a) a second antenna 2 and the third switch unit 6, or) via (a) a first antenna 1 and (b) the switch units 6 and 5 and a first circulator 3 (a circulator with two filters is similar to a diplexer) with (c) a filter having a pass-band for passing said second useful frequency band, said first emitter 8 being adapted to emit said first data signal in said first useful frequency band via (a) a filter 13 (lowpass filter) having a pass-band for passing said first useful frequency band, (b) the first switch unit 4 and said first circulator 3 and (c) said first antenna 1, and a second emitter 11 adapted to emit a fourth data signal in said second useful frequency band. However, emitter 11 is not adapted to emit the fourth signal via (a) a filter having a pass-band for passing said second useful frequency band, and (b) a second circulator. Instead the second emitter 11 is adapted to emit a fourth data signal only via third switch unit 6 and a second antenna 2. The first receiver 7 is adapted to receive the second data signal in the first useful frequency band via (a) said first antenna 1 and (b) said first circulator 3. The first receiver 7 is not adapted to emit a fourth data signal in said second useful frequency band via (a) said second antenna 2, (b) said second circulator and (c) a filter having a pass-band for passing said first useful frequency band.

Because Kojima fails to teach the claimed second circulator, Kojima does not anticipate claim 1 under 35 USC 102(a).

Allowance is in order.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 07-1337 and please credit any excess fees to such deposit account.

Respectfully submitted,

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Date: December 16, 2009
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